

Travelling Merchant: \_\_\_\_\_

# DATASHEET

Standard:     **O11F-K319-25.00MHz**    

P/N: \_\_\_\_\_

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2021.09.09			

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## 1. Electrical Parameters

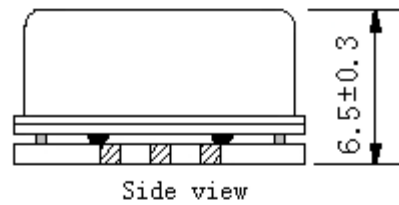
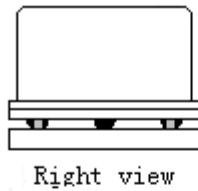
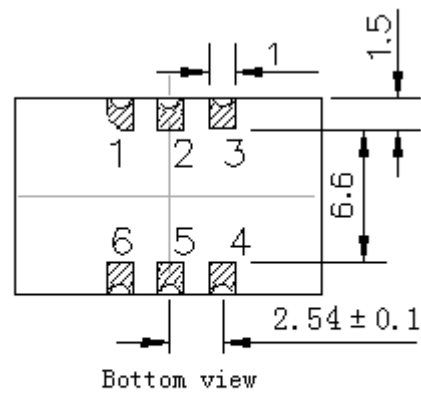
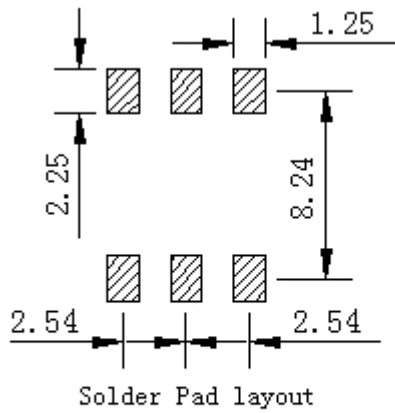
MODEL: O11F-K319-25.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	25.00			MHz	
	Output Waveform	HCMOS				
	Output Low Voltage			0.4	V	V <sub>cc</sub> =3.3V, O <sub>load</sub> =15pF
	Output High Voltage	2.4		2.7	V	V <sub>cc</sub> =3.3V, O <sub>load</sub> =15pF
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			2	ns	
	Load	15			pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range			10	× 10 <sup>-9</sup>	TA varied from -40°C to 90°C, measurement referenced to frequency observed with pk-pk, V <sub>cc</sub> =3.3V, load=15pF, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-0.5		+0.5	× 10 <sup>-6</sup>	Measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, and after 15 minutes of operation, within 30 days after ex-works.
	All causes stability	-4.6		+4.6	× 10 <sup>-6</sup>	All causes, 20 years life, reference to Fn.
	Frequency Tolerance vs. Supply Voltage	-0.01		+0.01	× 10 <sup>-6</sup>	measurement referenced to frequency observed T <sub>A</sub> =25°C, V <sub>cc</sub> varied from 3.13V to 3.47V, and O <sub>Load</sub> =15pF.
	Frequency Tolerance vs. Load	-0.01		+0.01	× 10 <sup>-6</sup>	10% load change measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, and O <sub>Load</sub> =15pF.
	Reflow shift	-0.5		+0.5	× 10 <sup>-6</sup>	After 1 hour recovery at 25°C, within 30 days after ex-works.
	Short-Term Stability: Allan Variance			0.02	× 10 <sup>-9</sup>	Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25°C; 1s.
Power Supply	Acceleration Sensitivity		< 2		× 10 <sup>-9</sup> /g	Gamma vector 3-axes, 30-1500Hz.
	Supply Voltage	3.13	3.3	3.47	V	
	Steady Consumption			150	mA	@25°C
	Warm up Current			450	mA	
	Warm up Time		< 3		Minutes	



Phase Noise	Phase Noise @25°C		-60		dBc/Hz	1Hz
			-90			10Hz
			-120			100Hz
			-140			1KHz
			-150			10KHz
			-152			100KHz
			-154			1MHz
		Environmental Conditions	Operable Temperature	-40		
Storage Temperature	-55			+105	°C	
ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.					
	Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C.					
Moisture Sensitivity Level	Level 3.					
Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~500Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z), IEC 68-2-06 Test Fc.					
Shock	50g; 11ms; half sine wave (3 times for each 3 directions X, Y, Z), IEC 68-2-27 Test Ea/Severity 50A.					
Full Package Storage	Relative humidity (%)	20% ~70%				
	Temperature (°C)	-10~35°C				

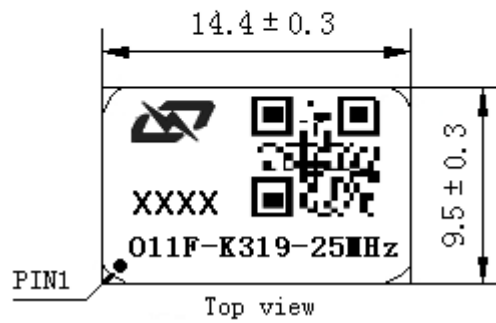


## 2. Mechanical Structure (mm)



### PIN FUNCTION

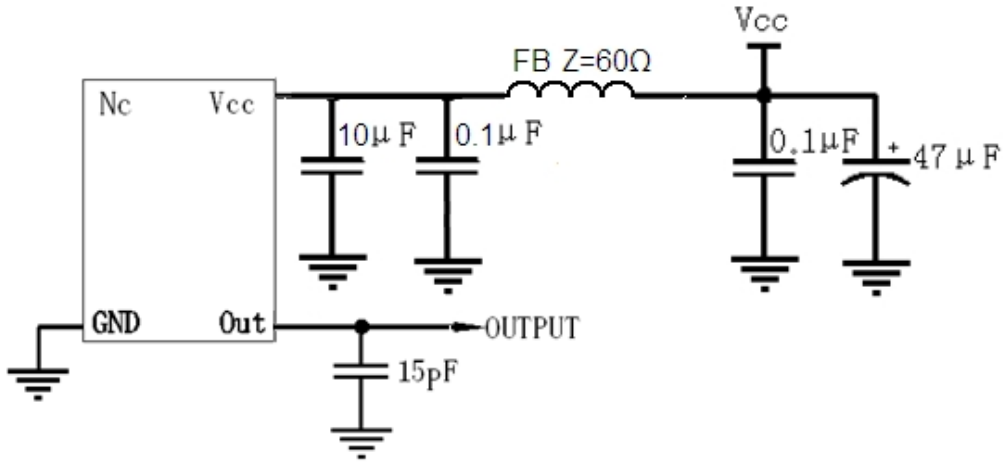
PIN	NOTATION	FUNCTION
1	NC	Not Connect
2,5	NC	Not Connect
3	GND	GND
4	OUTPUT	RF Output
6	VCC	Supply Voltage



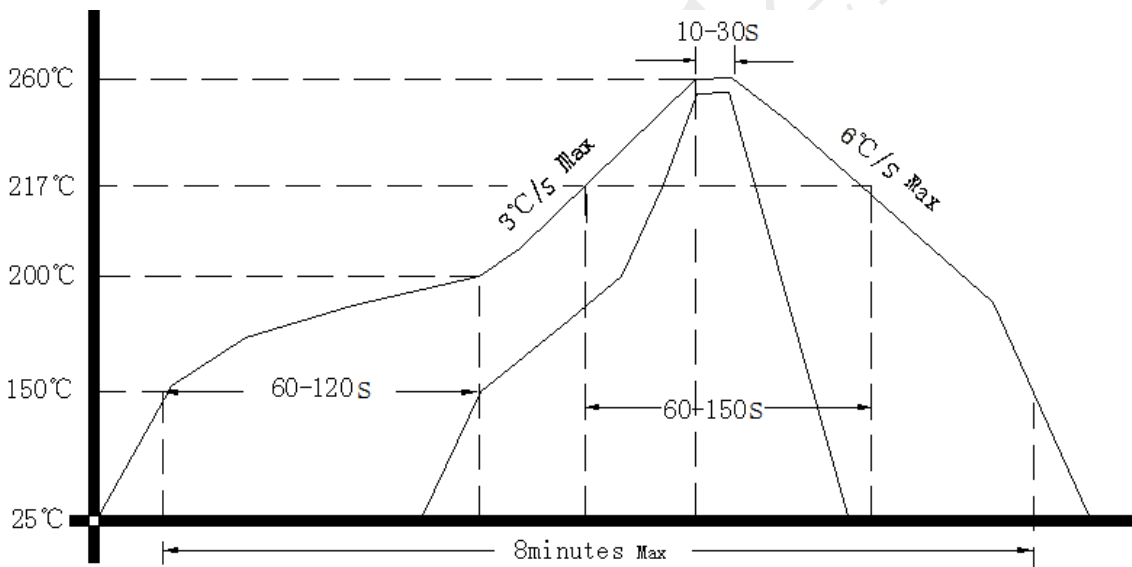
- Note1:** Tolerance  $\pm 0.2\text{mm}$  without mark
- Note2:** Referential Weight 2.2g
- Note3:** NC is not connect
- Note4:** The first two xx representative: week  
After two xx representative: year



### 3. Test Circuit



### 4. Reflow Soldering Curve (RoHS)



### 5. Package: Tape & Reel (mm)

